



OAC-1614
#6 Doc S/14 PATENT RECEIVED
MAY 14 2001
TECH CENTER 1600/2900

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Liggett et al.

Examiner: Unassigned

Serial No.: 09/692,077

Group Art Unit: 1614

Filed: October 19, 2000

Docket: 13105

For: Alpha-2B-adrenergic receptor polymorphisms

Dated: May 8, 2001

Kalow & Springut LLP
488 Madison Avenue, 19th Fl
New York, NY 10022

Assistant Commissioner for Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. 1.97(b), the attorneys for the Applicants hereby bring to the attention of the Patent and Trademark Office the following documents related to the field of the invention of the application identified above:

I. U.S. PATENT DOCUMENTS

<u>Patent No.</u>	<u>Date Issued</u>	<u>Title</u>
5,648,482 to Meyer	Jul. 15, 1997	Primers Targeted to CYP2D6 Gene for Detecting Poor Metabolizers of Drugs
5,846,710 to Bajaj	Dec. 8, 1998	Method for the Detection of Genetic Diseases and Gene Sequence Variations by Single Nucleotide Primer Extension

Certificate of Mailing Under 37 C.F.R. 1.8

I hereby declare that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Assistant Commissioner for Patents, Washington, D.C.

Date: 5/8/01 Name: J. Colwell

Applicant: Ligget et al.

Serial No.: 09/692,077

Page 2

<u>Patent No.</u>	<u>Date Issued</u>	<u>Title</u>
5,856,092 to Dale et al.	Jan. 5, 1999	Detection of a Nucleic Acid Sequence or a Change Therein
5,888,819 to Goelet et al.	Mar. 30, 1999	Method for Determining Nucleotide Identity Through Primer Extension
5,981,174 to Wolf et al.	Nov. 9, 1999	Genetic Assay
6,004,744 to Goelet et al.	Dec. 21, 1999	Method for Determining Nucleotide Identity Through Extension of Immobilized Primer
6,013,431 to Soderlund et al.	Jan. 11, 2000	Method for Determining Specific Nucleotide Variations by Primer Extension in the Presence of Mixture of Labeled Nucleotides and Terminators
6,156,503 to Drazen et al.	Dec. 5, 2000	Diagnosing Asthma Patients Predisposed to Adverse β -Agonist Reactions

II. NON PATENT PUBLICATIONS

Limbird, L. E. (1988) *FASEB J* **2**, 2686-2695

Eason, M. G. and Liggett, S. B. (1993) *Mol. Pharmacol.* **44**, 70-75

Handy, D. E., Flordellis, C. S., Bogdanova, N. N., Bresnahan, M. R., and Gavras, H. (1993) *Hypertension* **21**, 861-865

Tavares, A., Handy, D. E., Bogdanova, N. N., Rosene, D. L., and Gavras, H. (1996) *Hypertension* **27**, 449-455

Hein, L., Limbird, L. E., Eglen, R. M., and Kobilka, B. K. (1999) *Ann NY Acad Sci* **881**, 265-271

Rohrer, D. K. and Kobilka, B. K. (1998) *Physiol Rev* **78**, 35-52

Ruffolo, R. R., Jr., Nichols, A. J., Stadel, J. M., and Hieble, J. P. (1993) *Annu Rev Pharmacol Toxicol* **32**, 243-279

Applicant: Ligget et al.

Serial No.: 09/692,077

Page 3

Sallinen, J., Haapalinna, A., Viitamaa, T., Kobilka, B. K., and Scheinin, M. (1998) *The Journal of Neuroscience* **18**, 3035-3042

Sallinen, J., Haapalinna, A., Macdonald, E., Viitamaa, T., Lahdesmaki, J., Rybnikova, E., Pelto-Huikko, M., Kobilka, B. K., and Scheinin, M. (1999) *Mol Psychiatry* **4**, 443-452

Altman, J. D., Trendelenburg, A. U., MacMillan, L., Bernstein, D., Limbird, L., Starke, K., Kobilka, B. K., and Hein, L. (1999) *Mol Pharmacol.* **56**, 154-161

Hein, L., Altman, J. D., and Kobilka, B. K. (1999) *Nature* **402**, 181-184

Link, R. E., Desai, K., Hein, L., Stevens, M. E., Chruscinski, A., Bernstein, D., Barsh, G. S., and Kobilka, B. K. (1996) *Science* **273**, 803-805

Makaritsis, K. P., Handy, D. E., Johns, C., Kobilka, B., Gavras, I., and Gavras, H. (1999) *Hypertension* **33**, 14-17

Liggett, S. B., Ostrowski, J., Chestnut, L. C., Kurose, H., Raymond, J. R., Caron, M. G., and Lefkowitz, R. J. (1992) *J.Biol.Chem.* **267**, 4740-4746

Eason, M. G., Moreira, S. P., and Liggett, S. B. (1995) *J.Biol.Chem.* **270**, 4681-4688

Eason, M. G. and Liggett, S. B. (1992) *J.Biol.Chem.* **267**, 25473-25479

Jewell-Motz, E. A. and Liggett, S. B. (1995) *Biochem* **34**, 11946-11953

Kurose, H. and Lefkowitz, R. J. (1994) *J.Biol.Chem.* **269**, 10093-10099

Pitcher, J. A., Freedman, N. J., and Lefkowitz, R. J. (1998) *Annu Rev Biochem* **67**, 692

Heinonen, P., Koulu, M., Pesonen, U., Karvonen, M. K., Rissanen, A., Laakso, M., Valve, R., Uusitupa, M., and Scheinin, M. (1999) *J Clin Endocrinol Metab* **84**, 2429-2433

Baldwin, C. T., Schwartz, F., Baima, J., Burzstyn, M., DeStefano, A. L., Gavras, I., Handy, D. E., Joost, O., Martel, T., Manolis, A., Nicolaou, M., Bresnahan, M., Farrer, L., and Gavras, H. (1999) *Am J Hypertens* **12**, 853-857

Eason, M. G., Jacinto, M. T., and Liggett, S. B. (1994) *Mol.Pharmacol.* **45**, 696-702

Jewell-Motz, E. A., Small, K. M., and Liggett, S. B. (2000) *J.Biol.Chem.*

Small, K. M., Forbes, S. L., Rahman, F. F., Bridges, K. M., and Liggett, S. B. (2000) *J.Biol.Chem.* **275**, 23059-23064

Hausdorff, W. P., Bouvier, M., O'Dowd, B. F., Irons, G. P., Caron, M. G., and Lefkowitz, R. J. (1989) *J.Biol.Chem.* **264**, 12657-12665

Baron, B. M. and Siegel, B. W. (1990) *Mol Pharmacol* **38**, 348-356

Smith, P. K., Krohn, R. I., Hermanson, G. T., Mallia, A. K., Gartner, F. H., Provenzano, M. D., Fujimoto, E. K., Goeke, N. M., Olson, B. J., and Klenk, D. C. (1985)
Anal.Biochem. **150**, 76-85

Onorato, J. J., Palczewski, K., Regan, J. W., Caron, M. G., Lefkowitz, R. J., and Benovic, J. L. (1991) *Biochem* **30**, 5118-5125

Jewell-Motz, E. A. and Liggett, S. B. (1996) *J.Biol.Chem.* **271**, 18082-18087

MacMillan, L. B., Hein, L., Smith, M. S., Piascik, M. T., and Limbird, L. E. (1996)
Science **273**, 801-805

Munroe, P. B. and Caulfield, M. J. (2000) *Curr Opin Genet Dev* **10**, 325-329

WEB PAGE

<http://www.adrenoceptor.com/alphaintro.htm> (website visited April 2, 2001)

<http://www.tocris.com/adrenoceptor.htm> (website visited March 19, 2001)

The items listed above are identified on Form PTO 1449 which is submitted with this statement. A copy of each of the items identified above is submitted with this statement.

The attorneys for the Applicant take no position on whether or not any item cited above and listed on Form PTO 1449 constitutes prior art against the subject application under any particular provision of Title 35 of the United States Code.

Applicant: Ligget et al.
Serial No.: 09/692,077
Page 5

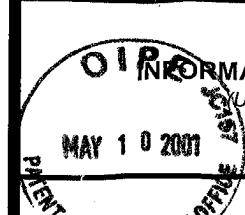
If a fee is deemed necessary, please charge any payment, or credit any overpayment, to deposit account no. 11-0171.

Respectfully submitted,



William D. Schmidt
Registration No. 39,492

Telephone: (212) 813-1600
Facsimile: (212) 813-9600



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

MAY 10 2007

ATTY DOCKET NO.

SERIAL NO. 09/692,077

FILING

October 19, 2000

GROUP

1614

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,648,482	07/15/97	Meyer			
	5,846,710	12/08/98	Bajaj			
	5,865,092	01/05/99	Dale et al.			
	5,888,819	03/30/99	Goelet et al.			
	5,981,174	11/09/99	Wolf et al.			
	6,004,744	12/21/99	Goelet et al.			
	6,013,431	01/11/00	Soderlund et al.			
	6,156,503	12/05/00	Drazen et al.			

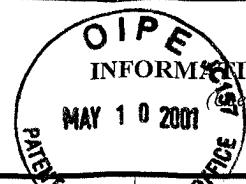
FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

			Limbird, L. E. (1988) FASEB J 2, 2686-2695
			Eason, M. G. and Liggett, S. B. (1993) Mol.Pharmacol. 44, 70-75

EXAMINER _____ **DATE CONSIDERED** _____

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



INFORMATION DISCLOSURE CITATION
(use several sheets if necessary)

MAY 10 2001

Docket Number (Optional) 13105	Application Number 09/692,077
Applicant(s) Liggett et al.	
Filing Date October 19, 2000	Group Art Unit 1614

*EXAMINER
INITIALS

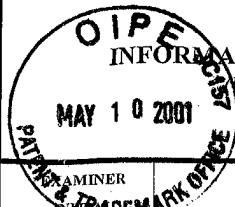
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Handy, D. E., Flordellis, C. S., Bogdanova, N. N., Bresnahan, M. R., and Gavras, H. (1993) Hypertension 21, 861-865
v	Tavares, A., Handy, D. E., Bogdanova, N. N., Rosene, D. L., and Gavras, H. (1996) Hypertension 27, 449-455
z	Hein, L., Limbird, L. E., Eglen, R. M., and Kobilka, B. K. (1999) Ann NY Acad Sci 881, 265-271
y	Rohrer, D. K. and Kobilka, B. K. (1998) Physiol Rev 78, 35-52
c	Ruffolo, R. R., Jr., Nichols, A. J., Stadel, J. M., and Hieble, J. P. (1993) Annu Rev Pharmacol Toxicol 32, 243-279
6	Sallinen, J., Haapalinna, A., Viitamaa, T., Kobilka, B. K., and Scheinin, M. (1998) The Journal of Neuroscience 18, 3035-3042
7	Sallinen, J., Haapalinna, A., Macdonald, E., Viitamaa, T., Lahdesmaki, J., Rybnikova, E., Pelto-Huikko, M., Kobilka, B. K., and Scheinin, M. (1999) Mol Psychiatry 4, 443-452
8	Altman, J. D., Trendelenburg, A. U., MacMillan, L., Bernstein, D., Limbird, L., Starke, K., Kobilka, B. K., and Hein, L. (1999) Mol Pharmacol. 56, 154-161
h	Hein, L., Altman, J. D., and Kobilka, B. K. (1999) Nature 402, 181-184
10	Link, R. E., Desai, K., Hein, L., Stevens, M. E., Chruscinski, A., Bernstein, D., Barsh, G. S., and Kobilka, B. K. (1996) Science 273, 803-805
11	Makaritsis, K. P., Handy, D. E., Johns, C., Kobilka, B., Gavras, I., and Gavras, H. (1999) Hypertension 33, 14-17
12	Liggett, S. B., Ostrowski, J., Chestnut, L. C., Kurose, H., Raymond, J. R., Caron, M. G., and Lefkowitz, R. J. (1992) J.Biol.Chem. 267, 4740-4746

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

MAY 10 2001

Docket Number (Optional)

13105

Application Number

09/692,077

Applicant(s)

Liggett et al.

Filing Date

October 19, 2000

Group Art Unit

1614

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Eason, M. G., Moreira, S. P., and Liggett, S. B. (1995) J.Biol.Chem. 270, 4681-4688

Eason, M. G. and Liggett, S. B. (1992) J.Biol.Chem. 267, 25473-25479

Jewell-Motz, E. A. and Liggett, S. B. (1995) Biochem 34, 11946-11953

Kurose, H. and Lefkowitz, R. J. (1994) J.Biol.Chem. 269, 10093-10099

Pitcher, J. A., Freedman, N. J., and Lefkowitz, R. J. (1998) Annu Rev Biochem 67, 692

Heinonen, P., Koulu, M., Pesonen, U., Karyonen, M. K., Rissanen, A., Laakso, M., Valve, R., Uusitupa, M., and Scheinin, M. (1999) J Clin Endocrinol Metab 84, 2429-2433

Baldwin, C. T., Schwartz, F., Baima, J., Burzstyn, M., DeStefano, A. L., Gavras, I., Handy, D. E., Joost, O., Martel, T., Manolis, A., Nicolaou, M., Bresnahan, M., Farrer, L., and Gavras, H. (1999) Am J Hypertens 12, 853-857

Eason, M. G., Jacinto, M. T., and Liggett, S. B. (1994) Mol.Pharmacol. 45, 696-702

Jewell-Motz, E. A., Small, K. M., and Liggett, S. B. (2000) J.Biol.Chem

Small, K. M., Forbes, S. L., Rahman, F. F., Bridges, K. M., and Liggett, S. B. (2000) J.Biol.Chem. 275, 23059-23064

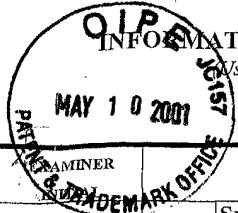
Hausdorff, W. P., Bouvier, M., O'Dowd, B. F., Irons, G. P., Caron, M. G., and Lefkowitz, R. J. (1989) J.Biol.Chem. 264, 12657-12665

Baron, B. M. and Siegel, B. W. (1990) Mol Pharmacol 38, 348-356

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional) 13105	Application Number 09/692,077
Applicant(s) Liggett et al.	
Filing Date October 19, 2000	Group Art Unit 1614

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Smith, P. K., Krohn, R. I., Hermanson, G. T., Mallia, A. K., Gartner, F. H., Provenzano, M. D., Fujimoto, E. K., Goede, N. M., Olson, B. J., and Klenk, D. C. (1985) Anal.Biochem. 150, 76-85

Onorato, J. J., Palczewski, K., Regan, J. W., Caron, M. G., Lefkowitz, R. J., and Benovic, J. L. (1991) Biochem 30, 5118-5125

Jewell-Motz, E. A. and Liggett, S. B. (1996) J.Biol.Chem. 271, 18082-18087

MacMillan, L. B., Hein, L., Smith, M. S., Piascik, M. T., and Limbird, L. E. (1996) Science 273, 801-805

Munroe, P. B. and Caulfield, M. J. (2000) Curr Opin Genet Dev 10, 325-329

<http://www.adrenoceptor.com/alphaintro.htm> (Website visited April 2, 2001)

<http://www.tocris.com/adrenoceptor.htm> (Website visited March 19, 2001)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.